

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P943969

Luminaire Tested: **GALN-SB8C-940-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943969
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-940-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43372 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

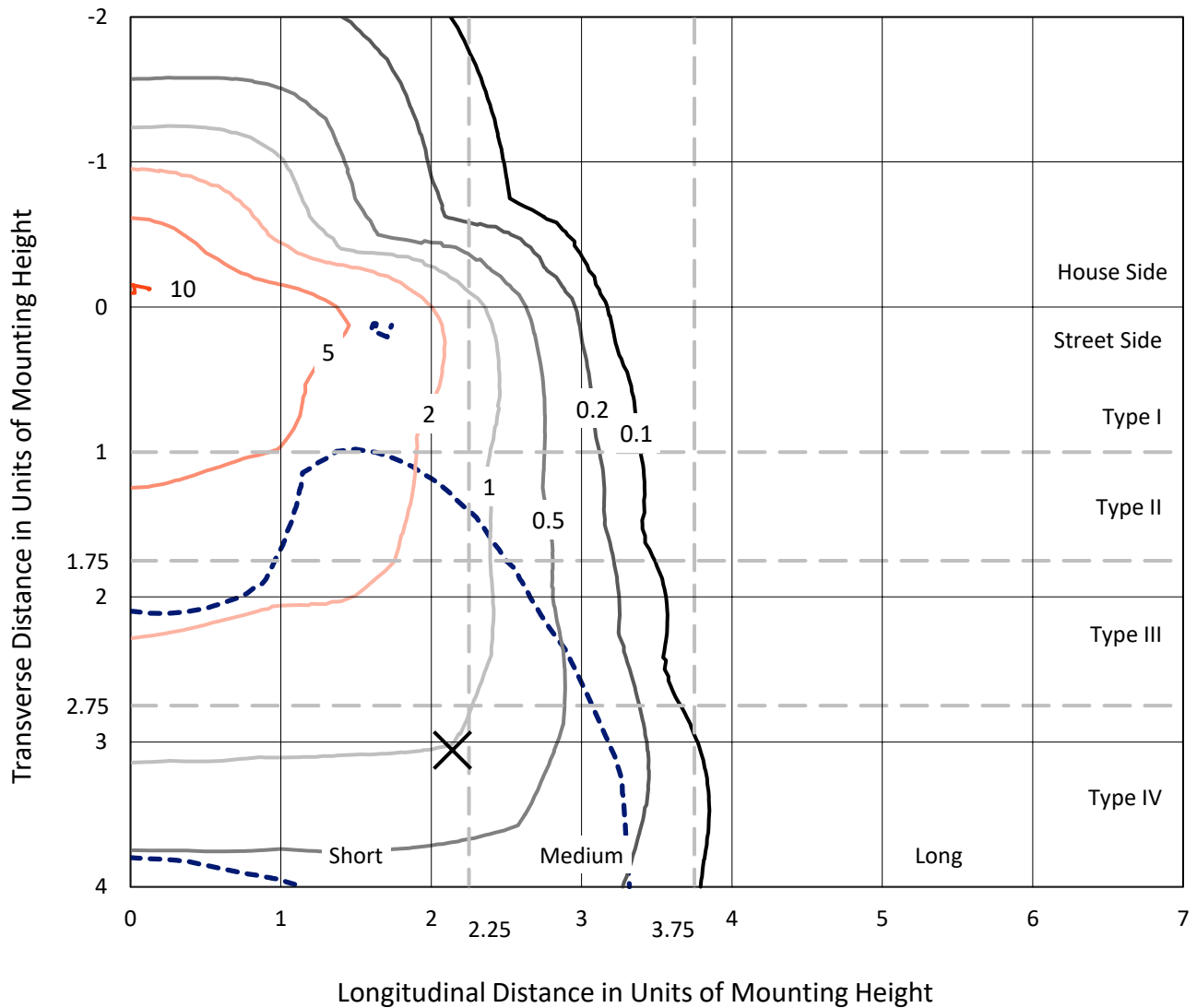
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

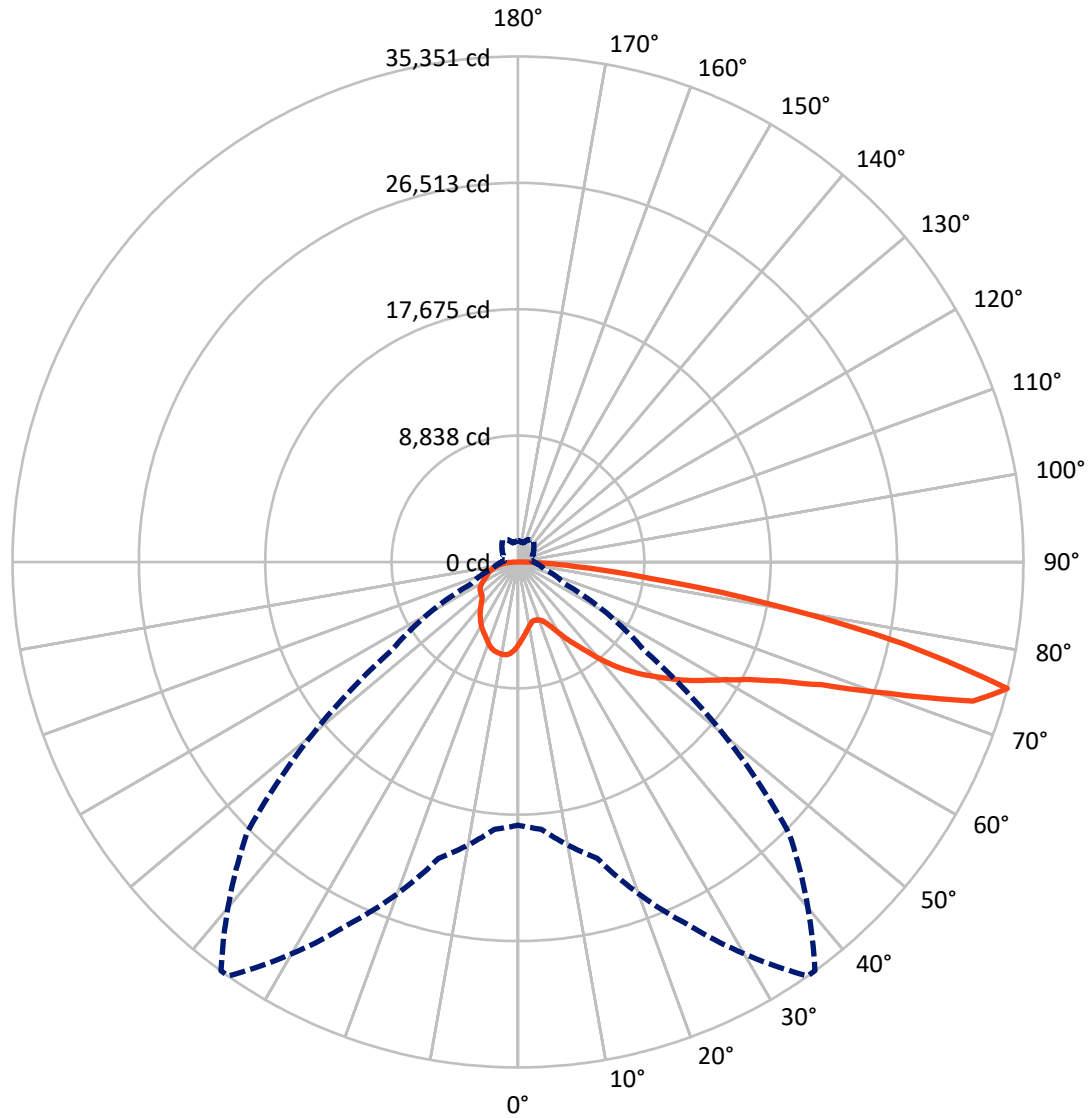
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10321.4	0.0	10321.4
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	33050.6	0.0	33050.6
	% Fixture	76.2	0.0	76.2
Total	Lumens	43372.0	0.0	43372.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	547.2	1.3
10°-20°	1578.4	3.6
20°-30°	2650.5	6.1
30°-40°	4119.3	9.5
40°-50°	6114.2	14.1
50°-60°	8441.0	19.5
60°-70°	10240.8	23.6
70°-80°	8463.3	19.5
80°-90°	1217.3	2.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	43372.0	100.0
0°-180°	43372.0	100.0

Coefficient of Utilization



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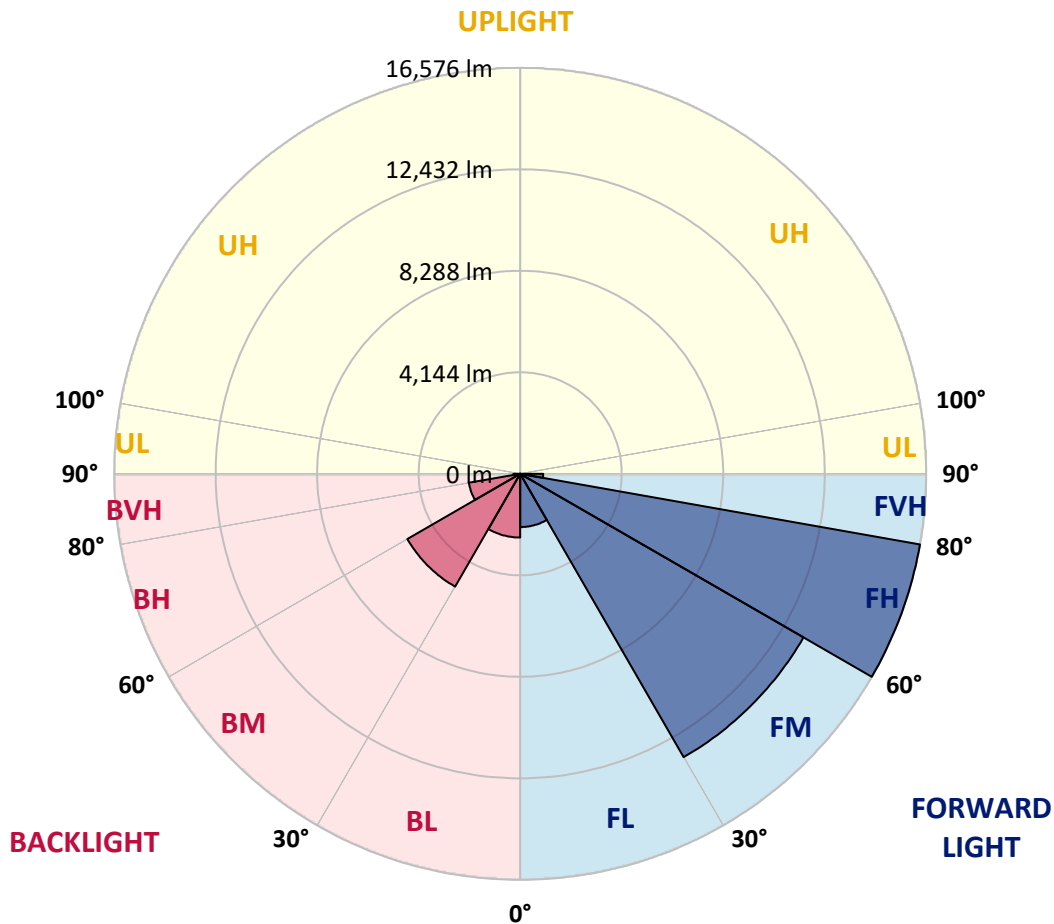
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2175.0	5.0			
FM (30°-60°)	13356.2	30.8			
FH (60°-80°)	16576.1	38.2			G5
FVH (80°-90°)	943.2	2.2			G5
BL (0°-30°)	2601.1	6.0	B4/5000		
BM (30°-60°)	5318.2	12.3	B4/8500		
BH (60°-80°)	2128.0	4.9	B3/2500		G3/2500
BVH (80°-90°)	274.1	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	5779.6	5779.6	5779.6	5779.6	5779.6	5779.6	5779.6	5779.6	5779.6	5779.6
2.5°	5329.4	5362.3	5376.3	5369.3	5404.5	5399.8	5449.0	5510.0	5594.4	5676.4
5°	4919.1	4954.3	4984.8	5012.9	5080.9	5102.0	5179.4	5296.6	5451.4	5608.5
7.5°	4536.9	4567.4	4614.3	4665.9	4780.8	4801.9	4930.8	5113.7	5329.4	5559.2
10°	4225.1	4255.6	4304.8	4363.4	4506.5	4532.2	4696.4	4940.2	5221.6	5512.3
12.5°	4091.4	4100.8	4129.0	4187.6	4311.8	4328.3	4508.8	4787.8	5116.1	5477.1
15°	4084.4	4103.2	4105.5	4136.0	4239.2	4246.2	4412.7	4689.3	5050.4	5470.1
17.5°	4154.8	4168.8	4147.7	4166.5	4253.2	4265.0	4396.3	4642.4	5029.3	5500.6
20°	4342.3	4354.1	4290.7	4265.0	4328.3	4337.6	4466.6	4672.9	5050.4	5563.9
22.5°	4740.9	4748.0	4593.2	4487.7	4492.4	4497.1	4609.6	4797.2	5132.5	5678.8
25°	5362.3	5357.6	5111.4	4907.4	4790.2	4764.4	4839.4	4998.8	5270.8	5831.2
27.5°	6089.1	6053.9	5807.7	5502.9	5247.4	5209.9	5193.4	5261.4	5467.8	6032.8
30°	6909.7	6876.9	6612.0	6213.4	5859.3	5798.4	5643.6	5608.5	5760.9	6307.2
32.5°	7810.1	7789.0	7472.5	6989.5	6515.8	6445.5	6185.2	6091.5	6211.0	6722.2
35°	8565.1	8546.3	8283.7	7786.7	7207.5	7120.8	6855.8	6750.3	6811.3	7254.4
37.5°	9247.4	9238.0	9012.9	8621.4	8023.5	7918.0	7620.2	7585.0	7573.3	7955.5
40°	9880.4	9857.0	9622.5	9416.2	8973.1	8876.9	8614.3	8583.8	8494.7	8818.3
42.5°	10581.5	10520.5	10180.6	10084.4	9964.8	9885.1	9728.0	9732.7	9535.8	9791.3
45°	11153.6	11118.4	10769.1	10712.8	10841.8	10808.9	10944.9	10980.1	10597.9	10811.3
47.5°	11767.9	11735.1	11439.6	11399.8	11749.1	11758.5	12239.2	12250.9	11634.3	11871.1
50°	12525.2	12478.3	12185.3	12234.5	12626.0	12661.2	13540.5	13460.8	12588.5	12947.3
52.5°	13024.6	13052.8	12989.5	13069.2	13603.8	13636.6	14820.7	14616.7	13533.4	14009.4
55°	13392.8	13449.0	13646.0	13828.9	14635.4	14668.3	16028.2	15716.3	14316.6	14994.2
57.5°	13866.4	13786.7	14154.8	14511.2	15615.5	15702.3	17202.8	16776.1	15010.6	15842.9
60°	14546.3	14490.1	14776.1	15303.7	16712.8	16851.1	18445.5	17730.4	15519.4	16515.9
62.5°	15925.0	15784.3	15828.9	16295.5	18096.2	18279.1	19847.6	18562.8	15772.6	16778.5
65°	17986.0	17744.5	17519.4	17842.9	20044.6	20225.1	21430.3	19216.9	15678.8	16269.7
67.5°	20581.5	20342.4	20065.7	20370.5	22914.5	23057.5	23383.4	19585.0	14940.2	14309.5
70°	22722.2	22633.1	22963.7	24218.1	27498.3	27503.0	25887.5	19280.2	12916.8	10145.4
72.5°	22438.5	22384.6	24126.7	28004.7	33275.6	33151.3	28258.0	16973.1	8701.1	4576.8
75°	18408.0	18757.4	21456.1	27936.7	35350.6	35334.2	26806.6	10790.2	3599.1	1896.8
77.5°	9871.1	10424.4	13929.7	20626.1	27596.8	28011.8	18846.5	3774.9	1545.1	1214.5
80°	3219.2	3702.2	5552.2	10501.8	17932.0	17854.7	8077.4	1481.8	1057.4	860.5
82.5°	1366.9	1423.2	2480.7	4959.0	9202.8	9059.8	2572.1	851.1	743.3	588.5
85°	534.6	597.9	1095.0	2293.1	3985.9	3899.2	928.5	422.0	476.0	384.5
87.5°	175.9	213.4	391.6	785.5	1240.3	1195.8	227.4	145.4	206.3	175.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5779.6	0°	5779.6	5779.6	5779.6	5779.6	5779.6	5779.6	5779.6	5779.6	5779.6	5779.6
5796.0	2.5°	5828.9	5866.4	5910.9	5976.6	6032.8	6079.7	6129.0	6159.4	6171.2	6206.3
5805.4	5°	5871.1	5953.1	6063.3	6171.2	6276.7	6340.0	6396.3	6424.4	6450.2	6468.9
5831.2	7.5°	5941.4	6046.9	6220.4	6361.1	6450.2	6501.8	6539.3	6529.9	6539.3	6544.0
5859.3	10°	6002.4	6150.1	6356.4	6490.0	6558.0	6560.4	6551.0	6518.2	6501.8	6504.1
5901.5	12.5°	6075.0	6239.2	6461.9	6574.5	6593.2	6541.6	6501.8	6445.5	6424.4	6415.0
5964.8	15°	6173.5	6361.1	6576.8	6619.0	6572.1	6506.5	6438.5	6347.0	6300.1	6262.6
6072.7	17.5°	6293.1	6499.4	6665.9	6635.4	6534.6	6426.7	6316.5	6178.2	6082.1	6042.2
6220.4	20°	6459.6	6644.8	6733.9	6600.2	6447.8	6283.7	6096.1	5927.3	5838.2	5798.4
6408.0	22.5°	6661.2	6839.4	6799.5	6539.3	6323.6	6061.0	5826.5	5702.2	5657.7	5629.6
6649.5	25°	6902.7	7055.1	6846.4	6450.2	6119.6	5765.5	5585.0	5545.1	5524.0	5502.9
6944.9	27.5°	7216.9	7299.0	6881.6	6318.9	5800.7	5451.4	5385.7	5392.7	5385.7	5350.5
7355.2	30°	7631.9	7615.5	6914.4	6105.5	5434.9	5167.7	5172.3	5202.8	5207.5	5184.1
7927.3	32.5°	8178.2	8011.7	6930.8	5828.9	5085.6	4919.1	4923.8	4956.6	4980.1	4940.2
8675.3	35°	8839.4	8473.6	6905.1	5481.8	4816.0	4682.3	4647.1	4656.5	4663.5	4626.0
9582.7	37.5°	9610.8	8991.8	6790.2	5097.3	4593.2	4450.2	4375.2	4311.8	4274.3	4239.2
10609.6	40°	10457.2	9556.9	6579.1	4722.2	4344.7	4204.0	4091.4	3971.9	3845.3	3798.4
11697.6	42.5°	11343.5	10138.4	6323.6	4363.4	4058.6	3943.7	3824.2	3650.7	3460.7	3364.6
12827.7	45°	12262.6	10733.9	6072.7	4009.4	3765.5	3716.3	3578.0	3369.3	3163.0	3041.0
13960.2	47.5°	13163.0	11296.6	5704.6	3653.0	3491.2	3545.1	3437.3	3245.0	3015.2	2823.0
15083.3	50°	14023.5	11824.2	5102.0	3291.9	3268.5	3493.6	3390.4	3113.7	2851.1	2604.9
16185.3	52.5°	14876.9	12250.9	4330.6	2963.7	3148.9	3479.5	3329.4	3024.6	2703.4	2445.5
17221.6	55°	15601.4	12471.3	3587.3	2682.3	2975.4	3359.9	3256.7	2919.1	2494.7	2220.4
17932.0	57.5°	16014.1	12293.1	2968.4	2405.6	2736.2	3163.0	3132.5	2694.0	2246.2	2035.2
18070.4	60°	15835.9	11570.9	2461.9	2164.1	2508.8	2949.6	2916.8	2471.3	2056.3	1857.0
17329.5	62.5°	14853.5	10194.6	2061.0	1953.1	2302.5	2731.5	2701.1	2300.1	1910.9	1718.6
15362.3	65°	12874.6	8293.1	1749.1	1777.3	2093.8	2468.9	2513.5	2157.1	1796.0	1608.4
11885.1	67.5°	9819.5	6007.0	1505.3	1624.9	1889.8	2211.0	2340.0	2053.9	1699.9	1521.7
6876.9	70°	5596.7	3411.5	1298.9	1477.1	1709.3	1971.9	2206.3	1971.9	1596.7	1449.0
2576.8	72.5°	2121.9	1566.2	1123.1	1329.4	1535.8	1770.2	2058.6	1842.9	1477.1	1366.9
1331.8	75°	1132.5	954.3	944.9	1155.9	1336.5	1573.3	1873.4	1716.3	1388.0	1444.3
921.5	77.5°	771.4	675.3	790.2	989.5	1118.4	1355.2	1676.4	1524.0	1202.8	1198.1
637.8	80°	534.6	478.3	642.4	797.2	865.2	1139.5	1463.1	1308.3	980.1	914.4
393.9	82.5°	321.2	311.8	480.7	595.5	612.0	879.3	1212.2	1097.3	801.9	698.7
234.5	85°	175.9	185.2	307.2	349.4	356.4	614.3	949.6	848.8	616.6	518.2
84.4	87.5°	49.2	63.3	112.5	138.3	171.2	318.9	565.1	504.1	309.5	215.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
5779.6
6204.0
6473.6
6551.0
6508.8
6410.3
6274.3
6044.6
5793.7
5634.2
5502.9
5357.6
5195.8
4959.0
4651.8
4262.6
3819.5
3376.3
3031.7
2801.9
2583.8
2417.4
2197.0
2007.0
1828.8
1688.2
1578.0
1493.6
1430.2
1348.2
1491.2
1104.3
874.6
703.4
522.9
215.7
0.0

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